USAREUR-Restoration Program of	Troop Billets - Standard 1+1		
		SOURCE	
B 03 PLANNING	AND DESIGN CRITERIA		B 01
	dings with basement and attic. Exceptions can be asements, buildings with flat roofs etc.	е	B 02
	rdination with "USAREUR" is required to determinate accommodated in the basement and/or the attic.	e	
B 03.1.1 Standard Fl	loors		В 03
NCO bedrooms consist of o bathroom, walk-in closet and	one room, min. 236 SF (approx. 22 m²) with privated kitchenette.	е	B 04
	of one room, minimum 118 SF (approx. 11 m²) with oms, walk-in closet for each room and share		
Additional Accommodation	n on Each Floor:		B 05
- 1 janitor's closet			
	15 bedrooms are located on one floor.		B 06
Only one kitchen is require building.	ed, if less than 15 bedrooms are located in the	е	
B 03.1.2 Basement			B 07
Design of mechanical room feasible, and a combined an	be accommodated in the basement. In provide for a separate access from outside, in a combination is not feasible, the coordinated with "USAREUR".		B 08
Mechanical rooms (combined Heating, ventilation, sanitary			
Electrical rooms as single rooms			B 09
If required by DPW:	electronical data processing 1 room for 1 central battery system		B 10
2 latrine facilities – separate A shower shall be design			
<ul> <li>room for washers and dry</li> <li>one each dryer and was in the building</li> </ul>	yers (laundry room) sher shall be provided for every 10 barracks spaces	;	B 11
<ul><li>2 arms rooms</li><li>1 janitor's closet</li><li>1 mud room</li></ul>	nent shall be upgraded; they shall be used as offic		B 12
and/or storage rooms.	ient shall be upgraded, they shall be used as onlo	6	_
			B 13
			B 14
			B 15

Community respectively.		
	SOURCE	
B 03.1.3 Accommodation in the Attic:		B 01
All general rooms such as: 1 game room to be used for table tennis and billiard		
1 room for telephones 2 latrines, separate for women / men		B 02
1 janitor's closet storage bin rooms		
		B 03
Storage bins (for soldier's luggage) for 100 % of the bedrooms shall be installed in the attic storage bin rooms.		
Bedrooms in the attic are acceptable, if provided by the geometry of the attic.		
A kitchen shall be accommodated only, if more than 15 bedrooms exist in the attic.		B 04
Dimensions and equipment see standard designs Single room descriptions see	B 06 B 07.2-3	B 05
B 03.1.4 Room numbering:		
All rooms shall be numbered as follows: the floor numbering shall be put in front of the room numbering.		B 06
The numbering starts with the stairwells, e.g. stairwell 01, 02 etc., then the		
numbering of corridors follows e.g. 03. All corridor sections per floor will be provided with the same number, e.g. 03. All following rooms shall be numbered consecutively clockwise per floor.		B 07
Project acc. to standard layout <b>fig. 06.3</b> shall be numbered as follows:  The anteroom will be provided with a number, the bedrooms located behind will		B 08
receive the same number adding "A" or "B" (e.g. anteroom 110, bedroom (1) 110A and/or bedroom (2) 110B).		
Room numbers on all drawings shall be shown in door openings. (See standard layout Chapter B06).		B 09
The combined mechanical area will be provided with one room number; the		
single rooms in mechanical will be only provided with the information what they are housing, e.g. heating room, electrical room etc. If these rooms are located		B 10
distributed on floor, they shall be included in the consecutive room numbering.		
The observance of numbering is important due to SAFLOK-programming.		B 11
B 03.1.5 Exterior Building Surfaces  Exterior building surfaces, including roofs, where required shall be required		
and/or replaced. The scope of work shall be determined with USAREUR in a work description upon commencement of design.		B 12
Free standing canopies shall be installed above building entrances. These shall be accomplished – as far as an "Installation Design Guide" for the real estate		D 42
is existing - acc .to design guidelines included therein or adjusted to the design elements existing in real estate.		B 13
B 03.1.6 Provided in Exterior Area:		
Bicycle stands, waste bins, POV-parking lots, picnic tables, benches, landscaping, planting, paved areas for garbage and waste containers.		B 14
The scope of accomplishment will be determined in a work description of USAREUR upon commencement of design.		
		B 15

USANEUN-Nesil	oracion Program or 1100p billets - Sta	iliualu ITI		
B 03.2	STANDARDS, GUIDELINI	ES AND CONSTRUCTION	SOURCE ABG 75	B 01
2 00.2	CRITERIA		7120 70	
according to name and ι	The construction measures shall be performed by German authorities according to German legal and administration requirements in their own name and under their own responsibility. Applicable standards and		B 02	
impose mor		he individual case, the U.S. Forces in the field of public safety and		В 03
B 03.2.1	Sound Insulation		DIN 4109	
DIN 4109 So	und Insulation in Building (	Construction		B 04
Requirements for building elements are defined as follows; they represent minimum values and shall be observed.			D 05	
Floors: (livin	g and bedrooms and corridors	s in apartments)		B 05
Airborne sour		R'w ≥ 54 dB L'n,w ≤ 53 dB		D 00
	ndard impact sound level insulation value	TSM ≥ 10 dB		B 06
	bathrooms in apartments, kitch	chens) ayers Etafoam shall be installed in		D 07
	More important is an effective		<b>B 07.1.3.2</b> Page	B 07
Floors: (cor	ridors and ianitor's closets) a	s far as sufficient construction height	i ugo	D 00
exists in corr	idors and a cement screed	of at least 45 mm thickness can be owing values shall be observed:		B 08
Airborne sour	nd insulation ndard impact sound level	R'w ≥ 54 dB L' n,w ≤ 53 dB		B 09
	insulation value	TSM ≥ 10 dB		
If the above listed construction is not possible and the cast stone covering shall be installed directly to the ceiling construction, the exception applies that only		B 10		
one layer Etafoam with one separation layer shall be installed. Sound bridges to walls shall be strictly avoided by suitable separations.				
	basement will be installed in in composite.	thick bed directly to the reinforced		B 11
	rms: (new facilities)			B 12
	ndard impact sound level insulation value	L' n,w $\leq$ 58 dB TSM $\geq$ 5 dB		D IZ
<b>Exception:</b> (following values shall be observed for stairs and platforms taken over from as-built)			B 13	
Stairs / platfortaken over fro	ms <sup>′</sup>	L' n,w ≤ 46 dB TSM ≥ 5 dB		
		- bedrooms, from living - bedrooms		B 14
•	janitor's closets)	R'w ≥ 53 dB		
, Join 6 3001	is indiation	<u>-</u> 00 db		D 45
				B 15

	SOURCE	
Partition walls: (within living-bedrooms to bathrooms) between bedrooms		B 01
Airborne sound insulation R'w ≥ 42 dB*		
*Note: Wall constructions – tiles and plaster incl. bricks shall be provided with at least 160 kg/m2.		B 02
Corridor walls, walls of mechanical rooms: (where located in living and sleeping floors, kitchen walls etc.)		В 03
Airborne sound insulation $R'w \ge 52 dB$		
<b>Walls of game room:</b> in the attic shall be provided with special sound insulation as far as living and bedrooms will be installed in attic. Airborne sound insulation $R'w \ge 55 \text{ dB}$		B 04
Doors: Entrance doors into apartment and as access to (living-bedrooms, kitchens, janitor's closets):		B 05
Airborne sound insulation R'w ≥ 32 dB* *Rw,P = sound insulation value of door facility installed ready to operate.		
Entrance doors bedrooms in apartment: (standard layout fig. 06.3) Airborne sound insulation  R'w > 32 dB*		B 06
*Rw,P = sound insulation value of door facility installed ready to operate.		
Entrance doors – bathroom:		B 07
Airborne sound insulation R'w ≥ 28 dB		
Windows shall be accomplished at least in sound protection class III  Observed shall be at least R'w ≥ 37 dB	VDI 2719	B 08
Windows see also	<b>B 07.4.1</b> Page 181	
If higher sound protection requirements are necessary or other requirements, the requirements shall be determined with USAREUR upon commencement of design.		B 09
B 03.2.2 Thermal Protection	DIN 4108	B 10
DIN 4108 Thermal protection in building construction Thermal protection Ordinance, edition 1/95 Energy saving law	WSchV EneG	B 11
Thermal protection and heating system regulation valid at design must be observed.		
It is the decleared aim of US Government to lower until 2030 the energy		B 12
consumption by 35 % for protection of our climate as well as lowering of our energy reserves.		D 40
A thermal protection proof acc. to <b>A/V-procedure</b> shall be provided for each building to be planned in the scope of <b>Final Design (95 %)</b> , a heat requirement certificate acc. to § 12 thermal protection regulation shall be prepared, <b>proof</b> shall be kept acc. to enclosure 1 digit 1 and 6 of thermal protection regulation.		B 13
		B 14
- Ogululion		
		B 15

The designers shall try to achieve the aimed maximum permissible year heat requirement or to improve it by measures in building — sesentially by arrangement of insulations in roof area, open passages and in basement area.  Facade insulations are not desired. These shall remain an exception.  Application of thermal protection ordinance for buildings under monument and ensemble preservation must remain in economically justifiable cost relationships. (Coordination concerning procedure with USAREUR prior to commencement of design).  B 03.2.3 Damp proofing:  B 03.2.3 Damp proofing:  The buildings designed for alteration are basically existing buildings with no longer effective damp proofing.  Missing horizontal damp proofing against rising moisture shall not be installed in existing basement walls due to high expenditure.  If new building elements shall be installed in basements, they shall be damp proofed in accordance with valid construction principles.  All basement walls shall be damp proofed from outside. In the area of soil contact, exterior basement walls shall be provided with thermal insulation (perimeter insulation), which also allows surface water drainage.  All newly installed bathrooms / latrine facilities / janitor's closets and kitchens shall be damp proofed any latrine facilities / janitor's closets and kitchens shall be damp proofed on two levels. Leaflet "Notes for sealing in connection with coverings made of tile and slabs for the interior area" shall be observed.  B 09  Applicable standards and guidelines e.g.:  DIN 18 195  B 101 18 195  B 108  B 109  All rewly installed bathrooms / latrine facilities / janitor's closets and kitchens shall be damp proofed on two levels. Leaflet "Notes for sealing in connection with coverings made of tile and slabs for the interior area" shall be observed.  All rewly installed bathrooms / latrine facilities / janitor's closets and kitchens shall be observed.  B 101 18 195  B 108  B 109  B 109  B 10 18 195  B 10 1	<u></u>		
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Building Codes and/or Exemplary Building Codes must be additionally observed.  B 12  B 14	Guidelines for the design and accomplishment of sealings of earth touched		B 11
B 14	Building Codes and/or Exemplary Building Codes must be additionally		B 12
			B 13
B 15			B 14
			B 15

	SOURCE	
B 03.2.4 Accident Protection / Health Protection The following listed rules and guidelines are listed as example; all further rules shall be used as far as applicable.		B 01
Accident Protection: Guidelines of the Federal Association of Accident Insurances of Public Authority (BAGUV – Bundesverband der Unfallversicherungsträger der öffentlichen		B 02
Hand) shall be observed e.g.		B 03
<ul> <li>More safety in case of broken glass</li> <li>Protection against accidents on stairs and in corridors</li> <li>Reviewed floor finishes - positive list -</li> </ul>	Mkbl GUV 56.3 560 210	
Further guidelines of BAGUV are mentioned in the following descriptions.		B 04
Health Protection: Construction materials and/or procedures designated for the execution shall observe the requirements of hazardous material regulation and technical guidelines. These are for example:		B 05
<ul> <li>Hazardous Waste Ordinance</li> <li>Technical directional concentration (TRK) for hazardous materials</li> <li>Observance of air limits</li> <li>Asbestos, demolition, renovation or maintenance work</li> </ul>	GefStoffV TRGS 102 TRGS 420 TRGS 519	В 06
- Fiber dusts	TRGS 521	B 07
<ul> <li>Renovation and working in contaminated areas</li> <li>Tar and other pyrolysis products of organic materials</li> <li>Operation instructions and training as per § 20 GefStoV</li> <li>Substitutes, substitute procedures and use restrictions for strongly</li> </ul>	TRGS 524 TRGS 551 TRGS 555	
solvent-containing primers and adhesive agents for floor finishes - Substitutes for asbestos	TRGS 610 TRgA 601	B 08
Guidelines for working in contaminated areas Special emphasis shall be paid to the adherence with processing instructions of mineral wool insulation material (BIA/BG recommendation)	ZH 1/183 BIA/BG	B 09
The CHC-Halon-prohibition ordinance of May 6, 1991, shall be observed; only DIBt*-approved materials shall be installed.	IfBT *)	B 10
Action instruction for removal of wood floors installed with PAK containing glues.		B 11
Federal immission protection law	BlmSchG	
B 03.2.5 Construction criteria:  The renovation concept shall be developed with extreme care. Contaminants shall be already determined in the first survey procedure (in the scope of Concept Design).		B 12
The buildings shall be renovated vibration low with <b>careful repair technologies</b> . Technologies such as drilling and sawing shall be used. Chiselling and demolition with vibration intensive equipment shall be reduced as far as possible in order to avoid cracks.		B 13
		B 14
*) Deutsches Institut für Bautechnik, Berlin		B 15